# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

# **Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.61	05/06/2015 05/06/2015	Bob Duffey

LM Start		Rating **	Α	Issue No.		1	
LM End		Issue Type +	Ма	Location *	LS		
Cotogon	Earthen L	evee		GPS La	atitud	le/Longitude	
Category				Start		End	
Item	Operations & Maintenance				0		0
пеш	Manuals				0		0
DWR ID	DWR_MAG	013_01_s _ 201	13_1				
		Action/	Comme	nts			
Inspector (	Comments	: The LMA ha	s the O	&M manuals	S.		

No Photos

LM Start		Rating **	Α	Issue No.		8		
LM End		Issue Type +	Ma	Location *		LS		
Catagony	Earthen Levee			GPS Latitude/Longitude				
Calegory				Start		End		
Item	Emergency Supplies &				0		0	
пеш	Equipmer	nt			0		0	
DWR ID	DWR_MAG	013_01_s _ 201	13_8					
	Action/Comments							
Inspector (	Comments	: The LMA ha	s adequ	ate flood fig	ght s	upplies and		

No Photos

No Photos

LM Start		Rating **	Α	Issue No.	16		
LM End		Issue Type +	Ма	Location *	LS		
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
				Start		End	
Itom	Flood Pre	paredness &	Training		0		0
Item					0		0
DWR ID	DWR_MA0	013_01_s _ 201	13_16				
		Action/	Commer	nts			

Inspector Comments: The LMA completed flood fight training in 2014.

equipment.

N : Not Inspected/Rated C : Corrected A/W: Acceptable but Monitor & Maintain + Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

## **Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.61	05/06/2015 05/06/2015	Bob Duffey

LM Start	0.57	Rating **	М	Issue No.	19		
LM End	0.57	Issue Type +	Ma	Location *	WS		
Category Earthen Levee				GPS Latitude/Longitude			
Calegory				Start End			
Item	Slope Sta	bility		39.5901	73 °	39.590173 °	
пеш				-121.7006	17 °	-121.700617 °	
DWR ID	DWR_MA0013_01_s _ 2013_19					·	
Action/Comments							

Repair the levee slope damaged by vehicle traffic and prevent access where possible.

# Photo 1 of 1 : SP\_2015\_MA0013\_300\_19\_20150310\_00009.jpg



View of the vehicle erosion along the waterside slope.

LM Start	0.73	Rating **	М	Issue No.		12
LM End	0.76	Issue Type +	Ma	Location *		LS
Category Earthen Levee			GPS Latitude/Longitude			
Category			Start		End	
Item	Encroach	ments		39.5879	05 °	39.587505°
пеш				-121.7008	22 °	-121.700880 °
DWR ID	DWR_MA0013_01_s _ 2012_12					
		Action/	Comma	nte		

Equipment

# Photo 1 of 1 : SP\_2015\_MA0013\_300\_12\_20150310\_00006.jpg



View of the equipment along the landside toe of the levee.

LM Start	4.45 Rating **		М	Issue No.	47	
LM End	5.35	Issue Type +	Ma	Location *		CR
Catagony	Earthen L	evee		GPS Lat	ituc	le/Longitude
Category				Start		End
Item		rface / Depres	ssions /	39.53601	7 °	39.523020 °
пеш	Rutting		-121.70770	5°	-121.707577 °	
DWR ID	DWR_MAG	013_01_s _ 201	15_47			
		A - 1' 1	O			

Action/Comments

Repair depressions or ruts in the crown or slope.

Inspector Comments: Repair the ruts in the crown roadway.



View of the ruts in the crown roadway.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

# **Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.61	05/06/2015 05/06/2015	Bob Duffey

LM Start	6.53	Rating **	М	Issue No.		2
LM End	6.53	Issue Type +	Ма	Location *	LS	
Category	Earthen Levee			GPS L	atitud	e/Longitude
Calegory				Start		End
Item	Encroachments			39.5073	37 °	39.507337 °
item				-121.7156	93 °	-121.715693 °
DWR ID	DWR_MAG	013_01_s _ 201	2_2			
		Action/	Comme	nts		
Material						



View of a concrete block along the toe.

LM Start	9.70	Rating **	М	Issue No.	5		
LM End	9.72	Issue Type +	Ma	Location *	LS		
Category Earthen Levee				GPS Latitude/Longitude			
Calegory				Start End			
Trim / Thin Trees				39.4671	70°	39.466860	0
Item				-121.7438	87 °	-121.744108	0
DWR ID	DWR_MA0013_01_s _ 2012_5						
		Action/	Comme	nts			

Trim trees to at least five feet above ground level.

Photo 1 of 1 : SP	_2015_MA0013	_300_5	_20150310_	_00003.jpg
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Trim the trees along the landside slope and toe.

LM Start	9.74	Rating **	М	Issue No.		10	
LM End	9.74	Issue Type +	Ma	Location *		LS	
Category	Earthen Levee				titud	e/Longitude	
Category				Start		End	
Item	Encroachments			39.4666	35 °	39.466635 °	
item				-121.7442	28 °	-121.744228 °	
DWR ID	DWR_MAG	DWR_MA0013_01_f _ 2013_10					
		Action/	Comme	nts			
Material							



View of a trailer & material along the L/S toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

## **Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.61	05/06/2015 05/06/2015	Bob Duffey

LM Start	11.58	<b>11.58</b> Rating ** M				11	
LM End	11.59 Issue Type + Ma			Location *	WS		
Category	Supplemental				tituc	le/Longitude	
Calegory				Start		End	
Item	USACE E	rosion Survey	′	39.44282	1 °	39.442738	0
пеш				-121.75985	1 °	-121.759908	0
DWR ID	DWR ID DWR_MA0013_01_f _ 2014_11						
	Action/Comments						

Inspector Comments: 2011 - Small erosion pocket likely caused by irrigation diversion structure. 2013: Site is part of the extended inventory, last inspected 2011. [2013 Site ID: CHK\_11-7\_R]

No Photos

LM Start	15.02	Rating **	A/W	Issue No.		45
LM End	15.02	Issue Type +	Ма	Location *		WS
Catagony	Earthen Levee				atituc	de/Longitude
Calegory				Start		End
Item	Animal Co	Animal Control			42 °	39.405542 °
пеш				-121.8003	92 °	-121.800392 °
DWR ID	DWR ID DWR_MA0013_01_f _ 2014_45					
	A :: 10					

# Action/Comments

No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

# Photo 1 of 1: SP\_2015\_MA0013\_300\_45\_20150310\_00012.jpg



View of the rodent hole on the waterside slope.

LM Start	17.09	Rating **	Α	Issue No.		46
LM End	17.09	Issue Type +	Ma	Location *		LS
Category	Earthen L	evee		GPS Latitude/Longitude		
Calegory				Start		End
Item	Vegetatio	Vegetation			23 °	39.386423 °
пеш				-121.83010	)7 °	-121.830107 °
DWR ID	DWR_MA0013_01_s _ 2015_46					

#### Action/Comments

Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Sutter Yard sprayed the vegetation from the landside slope.





View of no vegetation on the landside slope.

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

## **Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	05/12/2015 05/12/2015	Bob Duffey

LM Start	0.07	Rating **	М	Issue No.		1	_
LM End	0.17	Issue Type +	Ма	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Encroach	ments		39.5735	23 °	39.572455	0
пеш					87 °	-121.702370	0
DWR ID	DWR_MAG	013_02_s _ 201	12_1				
		Action/	Comme	nts			
Equipmen	t						

No Photos

LM Start	3.88	3.88 Rating ** M				59
LM End	4.04	4.04 Issue Type + Ma		Location *		CR
Category	Catagoni Earthen Levee				tituc	de/Longitude
Calegory				Start		End
Item	Crown Su	ssions /	39.52480	)2 °	39.526697 °	
item	Rutting			-121.70126	32 °	121.699680 °
DWR ID	DWR ID DWR_MA0013_02_s _ 2015_59					·
	A ation / O are as a ata					

#### Action/Comments

Repair depressions or ruts in the crown or slope. Inspector Comments: Repair the ruts in the crown roadway.

# Photo 1 of 1 : SP\_2015\_MA0013\_301\_59\_20150519\_00023.jpg



View of the ruts in the crown roadway.

LM Start	3.90	Rating **	М	Issue No.		58
LM End	4.04	Issue Type +	Ma	Location *		LS
Category	Earthen L	.evee	GPS Latitude/Longitude			
Calegory				Start		End
Item	Erosion /	Erosion / Bank Caving			'3 °	39.526697 °
пеш				-121.70100	)5 °	-121.699677 °
DWR ID	DWR_MA0013_02_s _ 2015_58					

Action/Comments

Schedule repair of erosion site prior to the next inspection. Inspector Comments: Repaire the landside slope erosion.

# Photo 1 of 1 : SP\_2015\_MA0013\_301\_58\_20150519\_00022.jpg



View of the landside slope erosion that was caused by the water overtopping the levee.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

## **Sutter Maintenance Yard Maintenance Area 0013**

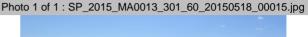
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	05/12/2015 05/12/2015	Bob Duffey

LM Start	7.46	Rating **	М	Issue No.		60	
LM End	8.20	Issue Type +	Ma	Location *		CR	
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory	Calegory					End	
Item		Crown Surface / Depressions /			3°	39.495120 °	
item	Rutting			-121.71631	0 °	-121.724060 °	
DWR ID	DWR_MA0013_02_s _ 2015_60						
		A -4:	C	-1-			

#### Action/Comments

Add appropriate material and re-grade the levee to bring the crown above the design elevation.

Inspector Comments: Repair the ruts in the crown roadway.





View of the ruts in the crown roadway.

LM Start	16.52	Rating **	A/W	Issue No.		54	
LM End	16.52	Issue Type +	Ma	Location *		WS	
Category	Earthen Levee			GPS Latitude/Longitude			
Category				Start		End	
Item	Animal Control			39.4095	48 °	39.409548	0
пеш				-121.7896	68 °	-121.789668	0
DWR ID	DWR_MA0013_02_f _ 2014_54						

#### Action/Comments

No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

# Photo 1 of 1: SP\_2015\_MA0013\_301\_54\_20150310\_00012.jpg



View of the rodent holes and bait station along the waterside slope.

LM Start	18.87	Rating **	Α	Issue No.		56	
LM End	18.87	Issue Type +	Ма	Location *		LS	
Category	Earthen L	GPS Latitude/Longitude					
Calegory				Start		End	
Item	Vegetation			39.387780	٥	39.387780	0
пеш				-121.823445	٥	-121.823445	0
DWR ID	DWR_MA0013_02_s _ 2015_56						
			_				

#### Action/Comments

Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Sutter Yard sprayed the vegetation along the landside slope.

# Photo 1 of 1: SP\_2015\_MA0013\_301\_56\_20150519\_00021.jpg



View of no vegetation on the landside slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2015

# **Sutter Maintenance Yard Maintenance Area 0013**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	05/12/2015 05/12/2015	Bob Duffey

LM Start	20.48	Rating **	М	Issue No.		6	
LM End	20.75	Issue Type +	Ma	Location *		LS	
Category	Earthen L	GPS Latitude/Longitude					
Calegory	Calegory					End	
Item	Trim / Thin Trees			39.3727	24 °	39.370732 °	
пеш				-121.8460	22 °	-121.850282 °	
DWR ID DWR_MA0013_02_s _ 2013_6							
Action/Comments							

Trim trees to at least five feet above ground level. Inspector Comments: Trim the trees 5 feet to allow visibility.



Trim the trees 5 feet to allow visibility along the landside slope.

LM Start	22.16	Rating **	М	Issue No.		8		
LM End	22.16	Issue Type +	Ma	Location *		LS		
Category	Earthen Levee				GPS Latitude/Longitude			
Calegory				Start		End		
Item	Encroachments			39.3597	07 °	39.359707	0	
iteiii				-121.8725	55 °	-121.872555	0	
DWR ID DWR_MA0013_02_s _ 2012_8								
Action/Comments								

Prunings

# Photo 1 of 1: SP\_2015\_MA0013\_301\_8\_20150310\_00004.jpg



View of the debris & prunings.

LM Start	22.58	Rating **	М	Issue No.		7		
LM End	22.60	Issue Type +	Ма	Location *		LS		
Category	Earthen Levee				GPS Latitude/Longitude			
Calegory	Calegory					End		
Item	Erosion /	Erosion / Bank Caving			8 °	39.356303	٥	
пеш				-121.87903	0 °	-121.879417	٥	
DWR ID	DWR_MA0013_02_s _ 2012_7							
	Action/Comments							

Note and monitor erosion site.



View of the erosion along the canal.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement